LE
3
T58
C32633

P71-0527.(1)

COMPUTER NEWS

University of Toronto
Computer Centre
10 King's College Road
TORONTO Ontario
M5S 1A1

416/978-2066

Janet Campbell, Editor

TABLE OF CONTENTS

PAGE

Christmas and New Year Holiday Schedule 1
The Canadian Information Processing Society 2
SIGUCC User Services Conference IV 2
Policy Correction on HSJS Usage by Non-University Users.................. 4
Arts and Science Computing Coordinator 4
Personnel Changes 4
WYLBUR Words 5
SNAP Instruction Manual 5
COCOA Concordance Users Group 5
MIP to be Withdrawn 5
Argonne Releases FUNPACK Edition II Certified 6
Errata 6
SPEAKEZ Sessions 6
Recent Acquisitions in the Department of Computer Science Library 7
GPJS - Software Usage Statistics 8
S/370-165-II Reliability 8
HSJS Monthly Statistics 11
Interactive Systems Reliability 12
UTCC Computer Equipment 13
UTCC Directory 14

University of Toronto

November 76 ISSN 0315-4661 No.142

COMPUTERNEWS is a monthly publication produced by the University of Toronto Computer Centre. Enquiries or contributions should be directed to the Editor, Janet Campbell or the Assistant Editor, Margo Harvie in the Sandford Fleming Building, room 137 or (416)-978-2066. Layout and ATS typing are provided by Kathryn Bourne. Subscription changes should be directed to the Information Office, Sandford Fleming Building, room 128 or (416)-978-4990.

……

Permission is granted to reprint articles from COMPUTERNEWS for noncommercial purposes provided the author, publication and issue are acknowledged.

UNIVERSITY OF TORONTO COMPUTER CENTRE

CHRISTMAS & NEW YEAR HOLIDAY SCHEDULE

	23 Thu	24 Fri	25 Sat	26 Sun	27 Mon	28 Tue	29 Wed	30 Thu	31 Fri	1 Sat	2 Sun	3 Mon
TECHNICAL REF. LIBRARY	N	X	X	X	X	X	X	X	X	X	X	N
INFORMATION OFFICE	N	X	X	X	X	X	X	X	X	X	X	N
ADMINISTRATION OFFICE	N	X	X	X	X	X	X	X	X	X	X	N
ACCOUNTING OFFICE	N	X	X	X	X	X	X	X	X	X	X	N
DATATALK	N	X	X	X	X	SS	SS	SS	SS	X	X	N
S/370 ADVISING OFFICE	N	X	X	X	X	X	X	X	X	X	X	N
S/360 OFFICES	N	X	X	X	X	X	X	X	X	X	X	N
S/360 FACILITIES	N	X	X	X	X	SS*	SS*	SS*	SS*	UO	SE	N
S/370 OFFICES	N	X	X	X	X	X	X	X	X	X	X	N
S/370 FACILITIES	N	X	X	X	X	SS	SS	SS	SS	X	X	N
CRF OFFICES	N	X	X	X	X	X	X	X	X	X	X	N
CRF FACILITIES	N	X^{K}	X^{K}	X^{K}	X^{K}	X^{K}	X^{K}	X^{K}	X^{K}	X^{K}	X^{K}	N

X	closed
UO	Unattended Operation
SS	Single Shift 9am - 5pm
SE	Single Shift Extended 9am - 6pm
N	Normal Hours of Service

^{K}CRF facilities will be open to Keyholders as usual.

*S/360 will be running unattended after 5pm.

Access to Sandford Fleming Terminal, EUT, the Keypunch room (SF120) and the 2741 terminal rooms (SF120, SF145) will be available at hours when the S/360-165 is scheduled for operation. Users of other terminal sites should watch for signs or check with their computer co-ordinator.

Digitized by the Internet Archive
in 2018 with funding from
University of Toronto

https://archive.org/details/computernewsnove142jane

THE CANADIAN INFORMATION PROCESSING SOCIETY (CIPS)

The Canadian Information Processing Society, CIPS, was formed in Toronto in 1958 to bring together Canadians with a common interest in the field of information processing. The current membership of over 3000 includes scientists, educators, businessmen, students and others who make their careers in computing and information processing. With a membership body of this size and diversity CIPS is nationally and internationally recognized as the voice and conscience of information processing in Canada. CIPS has undertaken a long term commitment to promote the use of computers in the best interests of Canadian society.

The activities of CIPS include committees organized to pursue special interests, meetings (dinner and technical), seminars and conferences held at national and regional levels to exchange information and publications to disseminate information.

The Toronto Section of CIPS offers both full memberships and student memberships in the society. The former has an annual fee of $50 which entitles the member to all publications and admission to the dinner meetings and technical sessions without charge. Student members enjoy all the benefits of full membership with the exception that a charge of $5 (less than guest rates) is made for attending dinner meetings.

Further information and membership applications may be obtained by phoning the CIPS national office (416) 366-4586 or the Toronto Section Membership Chairman: Brian Oliver (361-1144).

SIGUCC USER SERVICES CONFERENCE IV - TUSCON ARIZONA

The SIGUCC User Services Conference IV, sponsored by the Association for Computing Machinery Special Interest Group on University Computer Centres, was held in Tuscon, Arizona from November 7 through November 10, 1976.

Computer centre directors, user services managers, user services staff members and interested observers were present to discuss how the user services function could most effectively serve the academic, research and administrative needs in the university environment. Sessions included tutorials, workshops and panels. In addition, an exhibition of university computer centre documentation was held continuously during the conference.

The opening session entitled ´Elements of Success for User Services´ was presented by Lyle B. Smith, Director Computing Services, Northern Illinois University. The key features of the four traditional components of user services - documentation, consultation, a software library and teaching - were examined and a fifth component, "knowing users and their needs" was discussed. Mr. Smith maintained that computer centres should be more informed about what users are doing or want to do and must, at the same time, raise the level of the user´s knowledge about computing capabilities.

cont´d...

SIGUCC USER SERVICES cont´d

A workshop-style discussion centering around the aims and the impact of the university computer centre newsletter was given by Rita Saltz from the West Virginia University Computer Centre. This session emphasized audience participation, with members of the audience being selected to take part in dramatizations of the more common problems that confront many editors of computer centre newsletters. The workshop ended with the audience being divided into sections each of which was asked to compose a newsletter from a grab bag of headlines, copy, graphics, etc. In conjunction with the workshop-discussion, newsletter editors were contacted ahead of time and asked to contribute ideas for the development, arranging, publishing and distributing of the computer centre newsletter. These suggestions were used in the preparation of a compendium which was distributed at the conference.

William Knabe from the University of Iowa Computer Centre presented a session entitled ´Overcoming Computerese.´ Knabe maintained that emphasis should be placed on the use of a more human-oriented, as opposed to machine-oriented, computer terminology and backed up his opinion with the results of several empirical studies that had been undertaken at the University of Iowa. These studies were conducted to identify specific levels of linguistic understanding in various subsets of the user community and to determine the attitudes of different types of users to the use of messages containing fixed levels of ´computerese´.

The University of Iowa, Bucknell University, Stanford University, and University of Chicago were all represented at the session entitled ´Online Documentation´. The Iowa Documentation System (IDS), which identifies available software and produces user-oriented documentation for that software, was described by Bill Knabe. Ruth Drozin of Bucknell University outlined the development of Project ASSIST which was created to help faculty and students find the programs available to them and to document the use of these programs. SPIDOC (System for the Preparation and Inquiry of Documentation), a system developed and now coming into production use was described by J. Sack from Stanford University. Louise Rehling of the University of Chicago presented a paper on ´The Notice File System´ which provided an example of a somewhat different approach to online documentation. The Notice File contains only supplemental and transient information on such things as program bugs, new policies, temporary hardware problems, courses, etc.

The session entitled ´Human Oriented User Services´ looked at, among other things, the problems faced by the commuter student who is restricted in his use of computer centre facilities.

´User Feedback and How to Get It´ was an informative and informal session which dealt with common feedback procedures such as the suggestion box and log sheets as well as methods of improving feedback such as circuit riding and non-centralized user services.

User Services Conference IV - its well chosen sessions and and the numerous opportunities it offered for informal discussion of problems and interchange of ideas was enjoyed by all.

Janet Campbell/Margo Harvie

POLICY CORRECTION ON HSJS USAGE BY NON-UNIVERSITY USERS

In an article appearing in the October 1976 issue of COMPUTERNEWS entitled HIGH SCHOOL USAGE OF HSJS we stated that any high school could obtain 300 runs per term free-of-charge on the UTCC High Speed Job Stream and that additional runs would require the establishment of an account at UTCC. Minimum accounts were set at $300 (750 runs), non-refundable. This minimum account figure is not applicable. There is no mimimum account requirement for high schools or other non-university users who wish to access the High Speed Job Stream at UTCC.

Don Gibson

ARTS AND SCIENCE COMPUTING COORDINATOR

I am pleased to announce the appointment of Jill Reece as the Computing Coordinator at the Arts and Science Terminal (AST) and the Arts and Science Undergraduate Terminal (ASUT).

Jill has an MA degree in Experimental Psychology. She entered the computer field after deciding that it was more fun persuading computers to cooperate with people than convincing people to cooperate with computers. She initially worked in lab environments programming PDP-8s for online experimental control of equipment during the running of psychophysical experiments. Subsequently she worked on other DEC machines, CDC's and the HP2000. Prior to joining UTCC, Jill worked as a computer advisor for the Political Science Department at McMaster. There she furthered her experience with statistical methods and the use of statistical packages such as SPSS. She also taught programming and research methodology.

Jill brings with her to the Arts and Science Terminal a broad research background, plus experience with the computing requirments of many disciplines. Anyone having questions regarding AST or ASUT may contact Jill in Sidney Smith, Room 2104, 978-6509.

Ralph Lombardi

PERSONNEL CHANGES

The Computer Centre welcomes six new employees this month. Bob Blackburn and Kurtis Bishop will be working at 49 St. George Street. Bob has joined the Programming Services group. Kurtis has become a member of Customer Services. Anthony Ferrando and Susan Gardner will be working in Information Systems at 215 Huron Street. Anthony will be an Ancillary Operator and Susan will be working in programming. Ludlow Williams and Mary Nippak will be working in Sandford Fleming. Ludlow will be our new mailroom clerk and Mary is taking over Grace Belanger's old position.

Good luck to Bill Gillart who left the Centre last month and is now working in the banking industry.

Correction: Carl Williams, now working at 215 Huron St., was promoted to the position of Peripheral Operator, not to the position of Ancillary Operator as was stated in last month's COMPUTERNEWS.

June Bridges

WYLBUR WORDS

WYLBUR is a computer program used for manipulating text files such as letters, manuscripts, or other computer programs. It provides typewriter-terminal access to editing capabilities which allow the user to create, display and correct text; to submit programs to the computer for execution; and to receive output at his terminal. WYLBUR can also be used as a programming language. WYLBUR is easy to learn and use and has excellent recovery and fast response.

For some time UTCC has been investigating the possibility of installing WYLBUR as a fast, low cost terminal system for the 370-165-II. Currently, a modified STANFORD-MVT version is being installed and it is hoped that a test version will be available in February of 1977. Please watch COMPUTERNEWS for further information.

Ian Darwin

SNAP INSTRUCTION MANUAL

An instruction manual is now available for SNAP, a statistical computing package developed by the Department of Statistics, Princeton University. (See USERBOOK 3.6930). To obtain it, simply submit a High Speed Job Stream Job with the following job card:

```
$JOBR LIBRARY='SOURCLIB' MEMBER='SNAP'
```

Users with questions or problems should see:

David F. Andrews - Sidney Smith Bldg.
Room 5026
Institute of Applied Statistics

or

Lillian Lapczak - Sidney Smith Bldg.
Room 4066
Dept. of Mathematics

Jill Reece

COCOA CONCORDANCE USERS GROUP

The COCOA Concordance package, obtained from the Science Research Council of the United Kingdom, has now been installed at UTCC.

This is a powerful program but one which users often find difficult to use. For this reason, UTCC is interested in forming a users' group to provide users with the opportunity to exchange ideas and information related to the COCOA Concordance program and concordance work in general. Users interested in forming such a group should contact Herb Kugel at 978-7286.

Herb Kugel

MIP TO BE WITHDRAWN

Effective December 13, 1976, UTCC will no longer support the Mixed Integer Programming (MIP) feature of IBM's Mathematical Program System Extended (MPSX) package. Use of the MIP feature has been monitored over a ten-month period and the figures obtained indicate that the use of this feature is too low to justify its continued support by UTCC.

Users who have previously expressed an interest in the MIP feature have already been notified by UTCC. Other users who have not already been contacted by UTCC and who feel that their work will be adversely affected by the withdrawal of the MIP feature are asked to contact John Roth at 978-6878 or Stan Yagi at 978-7331.

cont'd...

MIP TO BE WITHDRAWN cont'd

UTCC will, of course, continue to support MPSX; it is only the special feature, MIP, which is being dropped. If anyone can demonstrate that he will make a reasonable amount of use of this feature, UTCC will be glad to consider re-installing it for a limited period of time. The Computer Centre regrets any inconvenience this may cause but retention of the MIP feature cannot be justified on any reasonable economic grounds.

John Roth

ARGONNE RELEASES FUNPACK EDITION II CERTIFIED

Users of Argonne National Laboratories FUNPACK Edition I will be interested to hear that FUNPACK Edition II Certified has arrived and has been installed on the S/370-165-II. Edition II contains the following special functions: J0(X) and J1(X), Bessel functions of the first kind of orders 0 and 1; $Y_\nu(X)$, Bessel functions of the second kind of real order; I0(X) and I1(X), modified Bessel functions of the first kind of orders 0 and 1, and EXP(-|X|)*I0(X) and EXP(-|X|)*I1(X); K0(X) and K1(X), modified Bessel functions of the second kind of orders 0 and 1, and also EXP(X)*K0(X) and EXP(X)*K1(X); and PSI (X), the logarithmic derivative of the Gamma Function.

These functions represent the state of the art in the field. Some of them are designed after algorithms which have just recently been published. All functions employ long precision arithmetic. Documentation for these new functions is currently being prepared and will appear in the USERBOOK module 3.7MATHAPP.MATH.

All the FUNPACK Edition II functions are available in load module form and exist as members of the online dataset APPL.MATHLIB. To include this library in a job using a UTCC catalogued procedure, specify X=APPL and LIBRARY=MATHLIB on the EXEC card. For further information on how to access this library, refer to the USERBOOK module, 3.7MATHAPP.

I. Farkas
R. Chambers

ERRATA

In the newsletter article entitled PL/I F LIBRARIES MOVED, which appeared on page 4 of the October 1976 issue of COMPUTERNEWS, an incorrect dataset name was specified. The correct dataset name is SYS1.PL1LIB. The JCL for the linkedit or loadgo steps for the subroutine library SYS1.PL1LIB was also incorrectly specified and should be:

```
//stepname.SYSLIB DD DSN=SYS1.PL1LIB,
// DISP=SHR
```

We regret any inconvenience this error may have caused.

Kin Fong

SPEAKEZ SESSIONS

Errors Corrected

Two minor errors in the SPEAKEASY setup have been detected. The first error, the omission of the locally-written TUTORIAL library from the list of files used by the TUTORIAL processor, resulted in the unavailability to batch or TSO of the tutorials for CALCOMP, GOULD and CALCUL. This has been corrected, and the tutorials are now available. The second error caused a message "MISSING OR INVALID DATA MANAGEMENT INFORMATION" for undefined references in batch. This error has been corrected and undefined references now give a correct error message.

cont'd...

SPEAKEZ SESSIONS cont'd

Faster TSO

The MU level of SPEAKEASY enables dynamic allocation of LINKULE libraries (i.e., they are not allocated until needed). Thus, initial startup time should be reduced. Users accessing only the MU level may use the TSO command SPEAKEF for faster access; the SPEAKEZ command may also be used with the LEVEL parameter.

When MU becomes the current level, (early in 1977) SPEAKEZ will become OLDSPEAK for a while, and SPEAKEF will become SPEAKEZ. Thus, any reference to SPEAKEZ will access the current version. The batch procedure will not be changed, except to remove some duplicate entries which currently exist.

Users with questions and/or problems should contact Ian Darwin, 49 St. George, Room 303.

Ian Darwin

RECENT ACQUISITIONS IN THE DEPARTMENT OF COMPUTER SCIENCE LIBRARY

Abd-Alla, Abd-Elfattah M. and Meltzer, A.C.
  Principles of digital computer design, v.l.
Englewood Cliffs, N.J., Prentice-Hall, 1976.

Abrams, Marshall, et al.
  Computer networks: text and references for a tutorial. Rev. ed.
New York, IEEE, 1975.

Bathe, Klaus-Jurgen and Wilson, E.L.
  Numerical methods in finite element analysis.
Englewood Cliffs, N.J., Prentice-Hall, 1976.

COMPCON 73.
  "Computing networks from minis through maxis- are they for real?"
New York, IEEE, 1973.
Digest of papers: IEEE Computer Society 7th Annual International Conf.

Engineering Foundation Conference on Technology and Social Institutions,
  Pacific Grove, Cal., 1973.
  Technology and social institutions, ed. by Kan Chen.
New York, IEEE Press, 1974

Fuller, Samuel H.
  Analysis of drum and disk storage units.
Berlin, Springer-Verlag, 1975.

Meadow, Charles T.
  Applied data management.
New York, Wiley, 1976.

Salisbury, Alan B.
  Microprogrammable computer architectures.
New York, Elsevier, 1976.

GPJS - SOFTWARE USAGE STATISTICS

The following chart summarizes the software usage per classified procedure and program name for the General Purpose Job Stream from October 4 to November 1, 1976.

SOFTWARE	USES (#JOBSTEPS)	(%)
ALGOL	30	0
APLSV	13	0
ASM	1,082	4
ATSUTIL	6	0
COBOL	527	1
CSMP	143	0
DATATEXT	128	0
DBUGUTIL	8	0
DISKUTIL	1,734	6
DSUTIL	3,863	14
FORTRAN	7,273	27
GPSS	238	0
GRAPHICS	2,380	8
JCLUTIL	165	0
LISP	190	0
MARKEXAM	36	0
MARKIV	637	2
MPS/MPSX	59	0
OSUTIL	290	1
PAPERTAP	86	0
PL/I	1,637	6
RPG	59	0
SAS	104	0
SERVAID	218	0
SNOBOL	718	2
SORTMERG	1,126	4
SPEAKEZ	89	0
SPSS	1,950	7
SSP/BMDD	968	3
TAPEUTIL	389	1
TIPRS	77	0
TSO	49	0
WYLBUR	5	0
XFR	340	1
TOTAL	26,617	

Kin Fong

S/370-165-II RELIABILITY

The reliability statistics for October indicate an uptime percentage of 96.9 while the average number of unscheduled IPL´s per day reached 0.83. The number of scheduled hours of production for October totalled 476.

MONTHLY COMPARATIVE FIGURES

MONTH	% UPTIME	UNSCHED. IPLs/DAY
Jan/75	95.7	2.77
Feb/75	96.0	1.14
Mar/75	96.7	1.10
Apr/75	98.6	0.70
May/75	99.4	0.60
Jun/75	97.4	0.79
Jul/75	95.2	1.23
Aug/75	97.6	0.83
Sep/75	99.1	0.87
Oct/75	97.2	1.13
Nov/75	95.8	1.63
Dec/75	99.4	0.48
Jan/76	99.1	0.43
Feb/76	98.9	0.97
Mar/76	96.8	1.03
Apr/76	99.3	0.52
May/76	98.8	0.67
Jun/76	96.5	0.97
Jul/76	96.4	0.72
Aug/76	99.4	0.47
Sep/76	98.4	0.86
Oct/76	96.9	0.83

The percentage breakdown for total system downtime for October was:

HARDWARE: 785 minutes (89.8%)
SOFTWARE: 54 minutes (6.2%)
OTHER : 35 minutes (4.0%)

The major events contributing to these downtime totals were as follows:

cont´d...

S/370-165-II cont'd

OCT 1 - 240 minutes down - 2 IPL's

All time attributed to continuing ITEL corrective maintenance on the /165 memory. The system had been active with the fourth megabyte offline from September 28. On October 1, we were experiencing numerous channel errors caused by the third megabyte. After ITEL engineers replaced a "select generator" card and re-adjusted the memory timing, the third and fourth megabytes were brought back online.

OCT 5 - 30 minutes down - 1 IPL

All time due to a re-occurrence of "storage protect" errors in the ITEL memory. A bad card was replaced.

OCT 6 - 448 minutes down - 4 IPL's

a. 285 minutes resulted from a faulty "solder" connection which interrupted power to the /165 C.P.U.
b. 163 minutes due to channel errors on the ITEL controller attached to channel 3. ITEL engineers found and replaced a faulty "chip".

OCT 7 - 60 minutes down - 3 IPL's

a. 35 minutes attributed to ITEL corrective maintenance on the channel 3 controller.
b. 5 minutes charged to JCL errors in the TSO startup procedure. Assurance corrected.
c. 20 minutes caused by equipment checks on the 3705. An IPL reset the unit.

Paul Scarborough

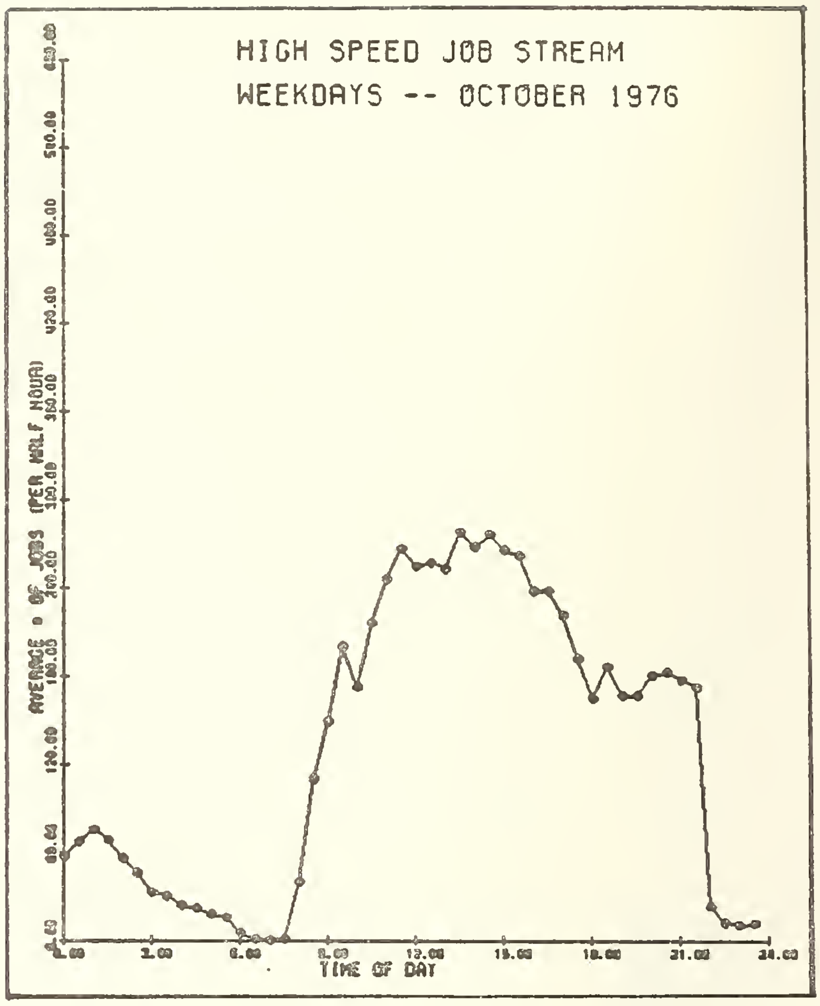
```
                        DOWNTIME REPORT ON   S/370  FOR OCT 76

------------------------------------------------------------------------------------------------------------------------------
|                                                   REIPLS(FREQ) // DOWNTIME (MN)                                            |
|   DAY  REIPL   DNTIME 0    5   10   15   20   25   30   35   40   45   50   55   60   65   70   75   80   85   90   95  100|
========================+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+|
| F  1      2     240   |☐☐********************************************************************************************** 240|
| S  2      0       0   |                                                                                                    |
| S  3      0       0   |                                                                                                    |
| M  4      0       0   |                                                                                                    |
| T  5      1      30   |☐*****************************                                                                      |
| W  6      4     448   |☐☐☐☐******************************************************************************************** 448|
| T  7      3      60   |☐☐☐*********************************************************                                        |
| F  8      3      12   |☐☐☐*********                                                                                        |
| S  9      0       0   |                                                                                                    |
| S 10      0       0   |                                                                                                    |
| M 11 (CENTER CLOSED)  |                                                                                                    |
| T 12      0       0   |                                                                                                    |
| W 13      1      10   |☐*********                                                                                          |
| T 14      0       0   |                                                                                                    |
| F 15      3      15   |☐☐☐************                                                                                     |
| S 16      0       0   |                                                                                                    |
| S 17      2      15   |☐☐*************                                                                                     |
| M 18      3      17   |☐☐☐**************                                                                                   |
| T 19      0       0   |                                                                                                    |
| W 20      0       0   |                                                                                                    |
| T 21      0       0   |                                                                                                    |
| F 22      1      17   |☐****************                                                                                   |
| S 23      0       0   |                                                                                                    |
| S 24      0       0   |                                                                                                    |
| M 25      0       0   |                                                                                                    |
| T 26      0       0   |                                                                                                    |
| W 27      0       0   |                                                                                                    |
| T 28      0       0   |                                                                                                    |
| F 29      1       5   |☐****                                                                                              |
| S 30      1       5   |☐****                                                                                              |
| S 31      0       0   |                                                                                                    |
------------------------------------------------------------------------------------------------------------------------------


LEGEND        : ONE ☐  =ONE UNSCHED. IPL
                ONE *  =ONE MINUTE OF DOWNTIME

                        TOTAL SCHEDULED HOURS OF PRODUCTION :  476
                        TOTAL DOWNTIME (MN)   :  874 , AVG/DAY :  29.13 , AVG/PROD HOUR :   0.92
                        TOTAL UNSCHED. IPL'S :   25 , AVG/DAY  :   0.83
                        DOWNTIME RATE IS      :  3.06 PERCENT OF SCHEDULED PRODUCTION HOURS
```

HSJS MONTHLY STATISTICS

During the month of October, 1976, 151,335 jobs were processed compared with 239,496 jobs for the previous year, a decrease of 36.8%.

The following charts summarize the HSJS activity for the month of October. The graph represents the average number of jobs processed during each half hour period of the day.

Mark Tapia



RESOURCE USAGE BY PROCESSOR

PROCESSOR	#USES	%TOTAL	TOTAL PER PROCESSOR CPU (MIN)	#CARDS READ	#LINES PRINTED	AVERAGE PER USE CPU (MIN)	#CARDS READ	#LINES PRINTED
WATFIV	47551	(31)	485.77	6383952	8184477	0.008	132	172
SP/K	41927	(28)	345.93	2220988	4632154	0.008	52	108
PL/C	39843	(26)	450.76	3585632	8075550	0.008	88	200
SPSSQ	3971	(3)	67.80	227678	718406	0.016	56	180
WATBOL	3688	(2)	39.87	633102	838095	0.008	168	224
UTILITY	3517	(2)	7.22	512031	593651	0.000	144	168
SNAP	3000	(2)	30.32	38535	301527	0.008	12	100
LISP	2885	(2)	74.45	794364	1213802	0.023	272	420
SPITBOL	1979	(1)	19.30	235222	385057	0.008	116	192
ALGOLW	1481	(1)	17.56	468808	528146	0.012	316	356
ASMG	1113	(1)	24.18	203358	316468	0.020	180	284
UTILITY	157	(0)	0.08	4383	5911	0.000	24	36
SIMON	90	(0)	0.05	2528	4653	0.000	28	48
$	85	(0)	1.21	3988	15308	0.012	44	180
PLUTO	24	(0)	0.05	595	1197	0.000	24	48
ASSIST	23	(0)	0.10	5217	5697	0.004	224	244
SP/KM	1	(0)	0.00	15	25	0.000	12	24
UTILITY	0	(0)	0.00	0	0	0.000	0	0
TOTAL	151335		1564.66	15320396	25820124	0.010	101	170

INTERACTIVE SYSTEMS RELIABILITY

The uptimes achieved for the month of October for APL and ATS were 99.53% and 99.39% of scheduled operation, respectively. The number of scheduled hours of operation totaled 470, while the number of unscheduled IPL´s per day was 0.10. In addition to the scheduled time, S/360 services were also available for approximately 133 hours of unattended weekend operation. The percentage breakdown of total system downtime for October was: Hardware - 92 minutes (69.7%), Software - 40 minutes (30.3%). Three unscheduled IPL´s were required as a result of the failures. The major events contributing to downtime were as follows:

October 6: 71 minutes down - 1 IPL. APL and ATS control terminals were locked due to an intermittant hardware problem on the 3705 Communications Controller unit. For a brief period the operator was unable to load the emulator program, but the problem was corrected by Re-IPL of the operating system.

October 13: ATS and TMCK abnormally terminated with the system completion codes SOF2 and SOC6, respectively. The problem was caused by an invalid branch in HASP at location 178A6E and resulted in 40 minutes downtime for ATS.

October 14: 32 minutes down - 1 ATS restart. ATS abended S001 when an input/output error condition was encountered.

October 18: 21 minutes down - 1 IPL resulted from a machine check indicated by the "PROC CHK" light on the CPU.

Kam Jain

UTCC COMPUTER EQUIPMENT

SYSTEM/370 MODEL 165-II

- located in SF103/105/112
- provides General Purpose Job Stream, High Speed Job Stream, APL SV and TSO services
- 4 megabytes of memory
- 1 drum (2301)
- 16 disk drives (3330)
- 9 disk drives (2314)
- 6 magnetic tape drives (4 9-track and 2 7-track)
- 6 display consoles
- 6 printers
- 5 card readers
- 1 card punch
- 8 remote batch terminals
- 1 paper tape reader
- Calcomp plotters (11" and 30")
- Gould plotter (11")
- OS/MVT with HASP

SYSTEM/360 MODEL 65

- located in McLennan Physical Laboratories
- provides APL and ATS services
- 1536K bytes of core
- 26 disk drives (2314)
- 3 9-track magnetic tape drives
- 1 printer
- 1 card reader
- 1 card punch
- 140 typewriter terminals
- OS/MVT with APL and ATS

COMPUTER RESEARCH FACILITY

- located in SF207
- DEC GT44 Systems with
  - 1 PDP-11/40 CPU
  - 2 9-track dual density tape drives
  - 1 1000 cpm card reader
  - VT17 graphics display unit
  - 1 lab. peripheral system with A/D & D/A
  - 1 CVI 260 Video Bandwidth Compressor
- DEC GT40 System with
  - 1 PDP-11/10 CPU
  - 1 2314 tape disk drive
  - 1 VT12 graphic display unit
  - 9-track/800 BPI tape drive
  - 1 Calcomp microfilm plotter

UTCC DIRECTORY

	ROOM	PHONE
ACTING DIRECTOR		
Rein Mikkor	SF116	5058
INFORMATION OFFICE		
General Inquiries	SF128	4990 or 4991
Marg Doherty	SF128A	8995
MANAGER, SERVICES		
Stan Yagi	SG200	7331
INFORMATION SERVICES		
Don Gibson	SF128	5568
SUPERVISOR, CUSTOMER SERVICES		
Bill Foster	SG301	6021
COMPUTING CO-ORDINATORS		
Sandford Fleming Terminal		
Mark Tapia	SF125	7109
Program Advisors	SF117	8599
Erindale		
Clem DiPlacido		828-5311
Scarborough		
Martin Hubel		284-3173
Arts and Science		
Jill Reece	SS2104	6509
New Physics		
Bob Chambers	NP1201	8823
SUPERVISOR, APPLICATIONS SUPPORT		
Herb Kugel	SG304	7286
MANAGER, SYSTEMS		
Derry Cox	SF113	4967
SUPERVISORS, OPERATIONS		
Paul Scarborough (S/370-165-II)	SF114	6220
Kam Jain (S/360-65)	NP333	7374
Dave Wong (S/370-155)		6864
MANAGER, SYSTEMS		
Rein Mikkor	SF116	5058
SYSTEM HARDWARE SUPERVISOR		
Eugene Siciunas	SF113	4967
MANAGER, COMPUTER RESEARCH FACILITY		
Dennis Smith	SF214B	4800
LAB CO-ORDINATOR (CRF)		
Krishna Patnaik	SF207	4086
ACCOUNTS		
Ann DeFazio	SF139	7148
Wynona Bardgett	SF139	8702
ACCESS CODES		
Yvonne Bowen	SF139	8703
MANAGER, INFORMATION SYSTEMS		
Sean Keeley		3579

NOTE:

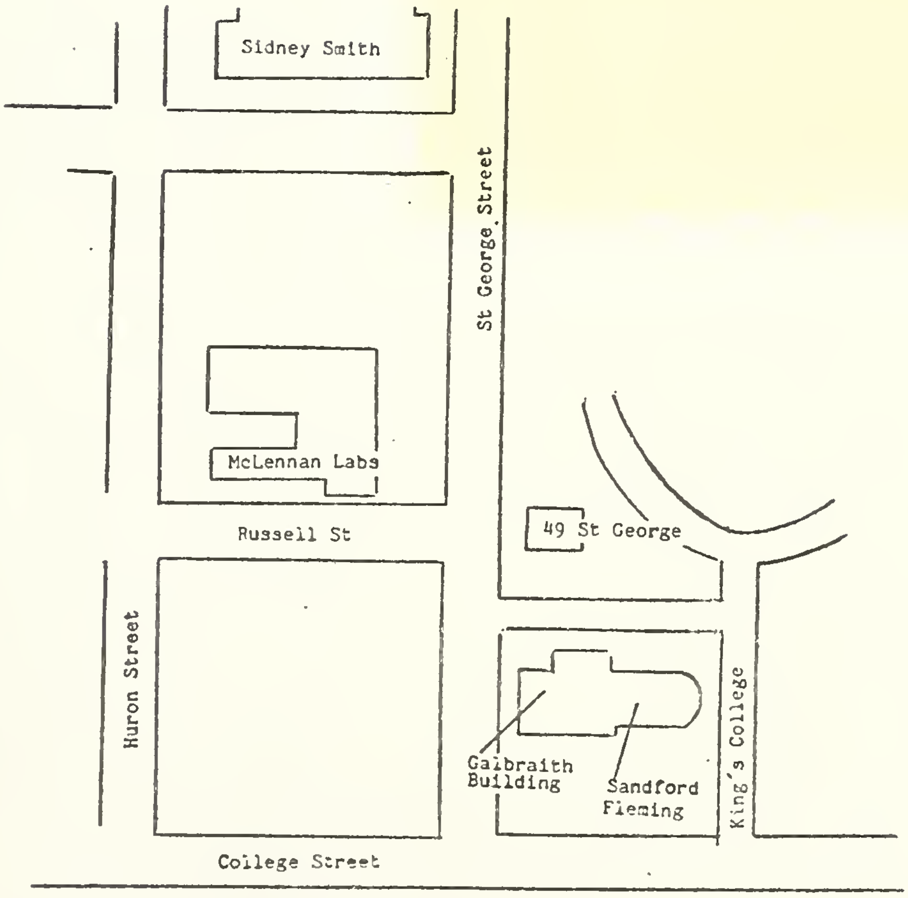
SF = Sandford Fleming
SG = 49 St. George
NP = McLennan Physical (New Physics)
SS = Sydney Smith

JOB AND SYSTEM STATUS QUERIES

SYSTEM/370,TSO	7373
ATS/APL	6234
2741 TERMINAL MALFUNCTIONS	7107
029 KEYPUNCH MALFUNCTIONS	6465

SERVICES

	DIAL-UP	ADVICE
APL - 2741	7200	6710
APL(ASCII	7200	6710
APL SV - 2741	7239	6710
APL SV - TTY	7447	6710
ATS	7100	7107
TSO - 2741	7303	8599
TSO - TTY (10 cps)	7390	8599
TSO - TTY (30 cps)	7386	8599
DATATALK	6710	6710



UNIVERSITY OF TORONTO
COMPUTER CENTRE,
TORONTO, CANADA,

CAMPUS DELIVERY

MISS KATTA
SERIALS DEPARTMENT
ROBARTS LIBRARY
UNIVERSITY OF TORONTO